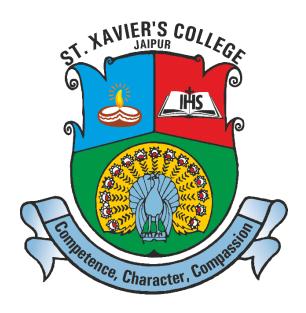
ST. XAVIER'S COLLEGE JAIPUR

Nevta - Mahapura Road, Jaipur - 302029, Rajasthan, India

Affiliated to the University of Rajasthan Approved under Section 2(f) &12(B) of the UGC Act, 1956



PROGRAMME OUTCOMES

B.Sc.

(Bachelor of Science)

Department of Science

Programme Outcomes (POs)

The learners will be able to:

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 1. | Apply theoretical knowledge to solve complex physics problems using appropriate mathematical and computational techniques |
| PO2. | Develop proficiency in designing experiments, and collecting data using laboratory equipment and critically evaluating scientific literature, experimental data, and theoretical models in Physics |
| PO 3. | Cultivate critical thinking skills to analyse problems, critical thinking through advanced mathematical learning and enabling practical applications in real-life scenarios |
| PO 4. | Conceptualise and implement mathematical functions and terminologies in computer languages and software |
| PO 5. | Elaborate concepts of Chemistry across various scientific disciplines |
| PO 6. | Perform, observe, and analyse the outcomes of chemical reactions |
| PO 7. | Illustrate the multidisciplinary approach inherent in the field of Plant Sciences |
| PO 8. | Categorise both theoretical principles and practical applications in Botany with a focus on environmental sustainability |
| PO 9. | Outline fundamental concepts related to the biology of life with an emphasis on respect towards humanity |
| PO 10. | Apply principles learnt in Zoology, enhancing their understanding of the subject |

| PO 11. | Analyse economic theories and quantitative methods to evaluate economic phenomena and propose solutions |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 12. | Recognise the diverse factors influencing the global economy and decision-making processes |
| PO 13. | Interpret data, trends and make evidence-based decisions across sectors |
| PO 14. | Conduct research and design new models using statistical methodologies |
| PO 15. | Analyse spatial patterns, processes, and relationships using practical geographical approaches and other tools to understand and solve real-world problems |
| PO 16. | Evaluate environmental issues and sustainability, applying geographical concepts to address challenges related to climate change, resource management, and urban planning |